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- 7) Applicant: GALLINO COMPONENTI PLASTICI S.p.A. Via Einaudi, 154 I-10040 Rivalta (Torino)(IT)
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- Representative: Notaro, Giancarlo et al c/o Jacobacci-Casetta & Perani S.p.A. Via Alfieri, 17 I-10121 Torino(IT)
- A method of manufacturing a motor-vehicle steering wheel by the moulding of plastics material so that it looks like a wooden steering wheel, and a steering wheel produced by the method.
- © A motor-vehicle steering wheel which is made of plastics material but looks like a wooden steering wheel is produced from a die having ribs such as to form in the moulded part indentations having a typical wood-grain pattern and arrangement. In the moulded part, the plastics material used for the moulding assumes a density of the same order of magnitude as that of a typical wooden steering wheel. A dark-coloured ink is applied to the surface of the moulded part and penetrates the indentations to give them the wood-grain appearance, the ink subsequently being removed from the rest of the surface of the part and the part then undergoing a final varnishing step.

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EUROPEAN SEARCH REPORT

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| tegory | of relevan | nt passages | to cl | alm | APPLICATION (Int. CI.5) |
| x | US-A-3 561 181 (BASSETT) | | 1,3-8 | . E | 3 29 C |
| ^ | * Column 2, lines 24-37 * | | | 3 | 33/42 |
| | - | | | 1 | 3 29 C 67/22 |
| Υ | | | 2,9,1 | - 1 | 3 44 F 9/02 |
| Ÿ | US-A-4 811 472 (KOBAYAS) | HI) | 2,9 | | 3 62 D 1/04 // |
| Ť | * Abstract * | | | | 3 29 L 31:30 |
| v | JAPANESE PATENT GAZET | TE section Ch. week 8702. | 10 | | |
| Υ | class A, accession no. 87-012 | 2612 [02], Derwent Publicati | ions | | |
| | Ltd, London, GB; | | | | • |
| | & JP-A-61 27 222 (KOKOKU | CHEM. IND. K.K. et al.) | | | |
| | 02-12-1986 | | | | |
| D.A | FR-A-1 492 060 (SOCIETE | OUILLERY) | 1,9 | ļ | |
| D,A | FR-A-1 492 000 (300/ETE | | 1 | | |
| Α | US-A-3 952 123 (KOPERNI | K) - |] 1 | 1 | |
| | * Column 6, lines 31-38 * | | | | |
| | GB-A-1 121 570 (SHELLER | MANUEACTURING CORP | 3 1 | | |
| Α | GB-A-1 121 5/0 (SHELLER | | " | | |
| Α | US-A-3 904 791 (IVERSON | et al.) | 1 | | TECHNICAL FIELDS |
| | _ | | | - | SEARCHED (Int. CI.5) |
| Α | GB-A-2 037 219 (CHRISTIA | AN) | 1 | | B 29 C |
| _ | | - | 1 | - 1 | B 44 F |
| Α | US-A-3 641 228 (FLECK) | | | İ | B 62 D |
| Α | US-A-3 896 199 (MICHAEL | IS) | 1 | | |
| | | · | 1 | | |
| Α | US-A-4 103 056 (BARATT) | J et al.) | ' | | |
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| | The present search report has been drawn up for all claims | | | - | |
| | Place of search | Date of completion of sea | rch | | Examiner |
| | The Hague | 31 March 91 | | | ROBERTS P.J. |
| | CATEGORY OF CITED DOC | JMENTS | | | nt, but published on, or after |
| × | (: particularly relevant if taken alone f: particularly relevant if combined with | h another | the filing d D: document | cited in the | |
| | document of the same catagory | | L: document | cited for ot | her reasons |
| 4 | A: technological background D: non-written disclosure | | &: member of | the same p | atent family, corresponding |